Access DB# _____

SEARCH REQUEST FORM

Scientific and Technical Information Center

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Mail Box and Bldg Room Location: _____ Results Format Preferred (circle): PAPER DISK E-MAIL

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****

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc. if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____

Inventors (please provide full names): _____

_____

Earliest Priority Filing Date: _____

**For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

Jan Delaval
Reference Librarian
Biotechnology & Chemical Library
CM1 1E07 – 703-308-4498
jan.delaval@uspto.gov

****

STAFF USE ONLY	**Type of Search**	**Vendors and cost where applicable**
Searcher _____	NA Sequence (#)_____	STN _____
Searcher Phone # _____	AA Sequence (#)_____	Dialog _____
Searcher Location _____	Structure (#) _____	Questel/Orbit _____
Date Searcher Picked Up: _____	Bibliographic _____	Dr.Link _____
Date Completed: _____	Litigation _____	Lexis/Nexis_____
Searcher Prep & Review Time _____	Fulltext _____	Sequence Systems _____
Clerical Prep Time _____	Patent Family _____	WWW/Internet _____
Online Time _____	Other _____	Other (specify)_____

PTO-1590 (8-01)

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                SET [illegible] OFF

     FILE 'REGISTRY' ENTERED AT [illegible] ON [illegible] MAY [illegible]
                E [illegible]
L1            [illegible] S E[illegible]
                E [illegible]
                E [illegible]
L2         [illegible] S [illegible]

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L5         [illegible] S L[illegible]
L6          [illegible]444 S END[illegible]PEPTIDASE OR END[illegible] PEPTIDASE
L7          141[illegible] S PROTEOLYTIC ENZYME
L8          [illegible] S L[illegible] AND [illegible]
L9          [illegible] S L[illegible],L[illegible]
L10          [illegible] S [illegible]
L11            [illegible] S L[illegible] AND [illegible]
L12           4[illegible] S L[illegible] AND [illegible]
L13           [illegible] S L[illegible],L[illegible]
L14           [illegible] S L1[illegible] AND [illegible]
L15           [illegible] S L1[illegible] AND [illegible]
L16            [illegible] S L1[illegible] AND RECOMBINANT
L17           [illegible] S L1[illegible] AND LIBRARY
L18            [illegible] S L1[illegible] AND [illegible]
L19           2[illegible]3 S L1[illegible] AND (NUCLEOTIDE[illegible] [illegible]
L20             46 S L11 AND L19
L21             12 S L11 NOT L2
                SEL RN [illegible]
L22              1 S E1
                SEL RN [illegible]
L23              [illegible] S E[illegible]-E[illegible]
                E [illegible] AU
L24           [illegible] S E[illegible],E[illegible],E[illegible]-E[illegible]
                E [illegible] AU
L25            [illegible] S E[illegible],E[illegible]
                E [illegible] CHARLES AU
L26             1[illegible] S E[illegible],E[illegible],E[illegible]
L27              [illegible] S L2[illegible]-L2[illegible] AND L[illegible]-L[illegible]
L28              [illegible] S L24 AND L2[illegible],L2[illegible]
L29              8 S L22,L2[illegible],L2[illegible]
L30             [illegible] S L2[illegible],L2[illegible],L2[illegible] NOT L2[illegible]
                SEL RN [illegible]
L31              [illegible] S E1-E[illegible]
L32             11 S L[illegible],L[illegible] AND L[illegible]-L[illegible]
L33             11 S L3[illegible] AND [illegible]
L34             [illegible] S L3[illegible] AND [illegible]
                SEL RN [illegible]
L35              [illegible] S E[illegible]-E[illegible]
L36             14 S L3[illegible],L3[illegible]
L37             11 S L3[illegible] AND [illegible]
L38             14 S L3[illegible],L3[illegible] AND L[illegible]-L[illegible]
L39              [illegible] S L3[illegible] AND [illegible]
L40             14 S L3[illegible],L3[illegible]
L41             14 S L4[illegible] AND (PROTEIN OR PEPTIDE [illegible]
                SEL HIT RN

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L42            [illegible] S E[illegible]-E[illegible]
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Protease

L44 ANSWER 2 OF 14 REGISTRY COPYRIGHT 2005 ACS
RN 399104-42-8 REGISTRY
ED Entered STN: 16 Jan 2001
CN Red-shifted green fluorescent protein (Aequorea victoria) fusion protein with tobacco etch virus cysteine proteinase-cleavable peptide (synthetic 72-amino acid) fusion protein with protein DsRed (Discosoma) (9CI) MAN INDEX NAME
OTHER NAMES:
CN [illegible]
CN PROTEIN SEQUENCE
MF Unspecified
CI MAN
SR CA
LC STN Files: CA, CAPLUS

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'DISPLAY' FORMATS TO DISPLAY REFERENCE ***
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: [illegible]

L44 ANSWER 3 OF 14 REGISTRY COPYRIGHT 2005 ACS
RN 399104-41-7 REGISTRY
ED Entered STN: 16 Jan 2001
CN Red-shifted green fluorescent protein (Aequorea victoria) fusion protein with tobacco etch virus cysteine proteinase-cleavable peptide (synthetic 31-amino acid) fusion protein with protein DsRed (Discosoma) (9CI) MAN INDEX NAME
OTHER NAMES:
CN [illegible]
CN PROTEIN SEQUENCE
MF Unspecified
CI MAN
SR CA
LC STN Files: CA, CAPLUS

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'DISPLAY' FORMATS TO DISPLAY REFERENCE ***
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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: [illegible]

L44 ANSWER 4 OF 14 REGISTRY COPYRIGHT 2005 ACS
RN 208934-04-7 REGISTRY
ED Entered STN: 16 Nov 1995
CN Napsin [illegible] MAN INDEX NAME
OTHER NAMES:
CN Aspartic protease napsin
CN Napsin A
CN Napsin B
CN Protease Asp3
CN Protease Asp4
MF [illegible]
CI MAN
SR CA
LC STN Files: [illegible]

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: [illegible]

RN 161384-17-4

CN Proteinase, matrix metallo-, MT-MMP-1 (9CI)

OTHER NAMES:

CN Matrix metalloprotease 14

CN Matrix metalloproteinase 14

CN Matrix metalloproteinase MT 1

CN Matrix metalloproteinase MT-MMP-1

CN Matrix metalloproteinase MT1-MMP

CN Membrane type 1 matrix metalloproteinase

CN Membrane type-1 matrix metalloprotease

CN Membrane-type matrix metalloprotease 1

CN Membrane-type matrix metalloproteinase 1

CN Membrane-type matrix metalloproteinase MT1-MMP

CN Membrane-type metalloproteinase MT1-MMP

CN MMP-14

CN MT-MMP1

CN MT1-MMP

MF Unspecified

CI MAN

SR CA

LC STN Files: BIOSIS, CA, CAPLUS, CEN, DRUGUPDATE, DRUGU, USPATFULL

[illegible]

[illegible]

[illegible]

[illegible]

L44 ANSWER [illegible] REGISTRY [illegible]

RN 161052-06-8

[illegible]

OTHER NAMES:

CN Leishmania major major surface proteinase gp63

CN Leishmania metalloproteinase

CN Proteinase, Leishmania mexicana amazonensis protein gp63 acid

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

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[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

L44 ANSWER [illegible] REGISTRY [illegible]

RN 158736-49-3 REGISTRY

CN [illegible] INDEX NAME

OTHER NAMES:

CN [illegible]

CN [illegible]-Amyloid precursor protein [illegible]-cleaving enzyme

CN [illegible]-Site APP-cleaving enzyme

CN [illegible]-Site APP-cleaving enzyme

CN [illegible]-Site APP-cleaving enzyme

CN Amyloid [illegible] precursor protein [illegible]-cleaving enzyme

CN APP [illegible]-cleaving enzyme

CN Aspartic protease BACE

CN Aspartic protease BACE1

CN Aspartic protease BACE2

CN [illegible]

CN [illegible]

CN Protease Asp1

CN Protease Asp2

CN Proteinase BACE1

CN Proteinase BACE2

[illegible]

RN 146480-35-5 REGISTRY
CN Gelatinase A [illegible]
OTHER NAMES:
CN 72 kDa Gelatinase
CN 72 kDa Gelatinase type A
CN 72,000-Mol.-Wt. Gelatinase
CN 72,000-Mol.-Wt. type IV Collagenase
CN Collagenase IV
CN Collagenase type IV
CN E.C. 3.4.24.24
CN Matrix metalloprotease 2
CN Matrix metalloproteinase 2
CN MMP-2
CN Type IV collagen metalloproteinase
[illegible]
MF [illegible]
LC STN Files: ALLPATENTS, ANABSTR, ANTIBIOT, BIOBUSINESS, BIOSCI, BIOTECHNO, CA, CAPLUS, CBNB, CIN, EMBASE, IFICDB, IFIPAT, IMSRESEARCH, TOXCAT, USPATFULL

[illegible]

[illegible]

REFERENCE [illegible]

REFERENCE [illegible]

REFERENCE [illegible]

REFERENCE [illegible]

REFERENCE [illegible]

REFERENCE [illegible]

REFERENCE [illegible]

L44 ANSWER [illegible]
RN 144114-21-6 REGISTRY
CN Retropepsin (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Avian leukosis virus proteinase
CN E.C. 3.4.23.16
CN FIV proteinase
CN Gag Protease
CN HIV aspartyl protease
CN HIV protease
CN HIV proteinase
CN HIV-1 aspartyl protease
CN HIV-1 aspartyl proteinase
CN HIV-1 protease
CN HIV-1 proteinase
CN HIV-1 virus aspartyl proteinase
CN HIV-1 virus protease
CN HIV-2 protease
CN HTLV proteinase
CN HTLV-1 proteinase
CN Human immunodeficiency virus protease
CN Mason-Pfizer monkey virus protease
CN Moloney murine leukemia virus protease
CN Retroproteinase
CN Rous sarcoma virus protease
CN RSV proteinase
CN Simian immunodeficiency virus aspartyl proteinase
MF Unspecified
CI COM, MAN
SR CA
LC STN Files: [illegible]

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
[illegible]

REFERENCE [illegible]

REFERENCE [illegible]

REFERENCE [illegible]

REFERENCE [illegible]

REFERENCE [illegible]

RN 141760-45-4

OTHER NAMES:

CN Saccharomyces cerevisiae gene QDS1 proteinase

CN Serine proteinase PACE

RN 139691-88-6

CN Proteinase, assembly protein precursor-processing (9CI)

OTHER NAMES:

CN Assembly protein precursor-processing proteinase

CN Cytomegalovirus protease

CN Gene UL26 protease

CN Herpes simplex virus 1 proteinase Pra

Herpesvirus serine proteinase
HSV 1 protease
Human cytomegalovirus maturational proteinase
Human cytomegalovirus protease
Human cytomegalovirus proteinase
Kaposi's sarcoma-associated herpesvirus protease
Varicella-zoster virus gene 33 proteinase

122191-40-6
Proteinase, interleukin 1.beta. precursor (9CI)
CED-3 protease
ICE proteinase
Interleukin 1.beta. precursor proteinase
Pro-interleukin 1.beta.-proteinase
Prointerleukin 1.beta. protease

[illegible]

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

REFERENCE 1: [illegible]

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REFERENCE 3: [illegible]

REFERENCE 4: [illegible]

REFERENCE 5: [illegible]

REFERENCE 6: [illegible]

REFERENCE 7: [illegible]

REFERENCE 8: [illegible]

REFERENCE 9: [illegible]

L44 ANSWER 12 OF 14 REGISTRY [illegible]

RN 115775-22-9 REGISTRY

CN Proteinase, tobacco etch virus cysteine (9CI) [illegible]

OTHER NAMES:

CN TEV protease

CN Tobacco etch virus cysteine proteinase

CN Tobacco etch virus protease

MF Unspecified

CI MAN

SR CA

LC STN Files: BIOSIS, CA, CAPLUS, TOXCENTER

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

9 REFERENCES IN FILE CA (1907 TO DATE)

9 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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REFERENCE 2: [illegible]

REFERENCE 3: [illegible]

REFERENCE 4: [illegible]

REFERENCE 5: [illegible]

REFERENCE 6: [illegible]

REFERENCE 7: [illegible]

REFERENCE 8: [illegible]

REFERENCE 9: [illegible]

L44 ANSWER 13 OF 14 REGISTRY [illegible]

RN 99676-46-7 REGISTRY

CN Renin (9CI) [illegible]

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 USER NAMES:
 [illegible]
 Conversion endoprotease PC1
 [illegible]
 [illegible]
 [illegible]
 [illegible]
 [illegible]
 Endoprotease PC1/3
 Endoprotease PC3
 Endoproteinase Kex2p
 Gene KEX2 dibasic proteinase
 Kex 2p proteinase
 [illegible]
 Kex2 endoprotease
 Kex2 endoproteinase
 Kex2 protease
 Kex2 proteinase
 Kex2-like endoproteinase
 Kex2-like precursor protein processing endoprotease
 [illegible]
 [illegible]
 PC1 proteinase
 PC3 precursor-processing proteinase
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 Prohormone-processing endoprotease
 Prohormone-processing KEX2 proteinase
 Prohormone-processing proteinase
 Preprotein [illegible]
 Preprotein [illegible]
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 Protease KEX2
 Proteinase Kex2p
 Proteinase PC1
 Proteinase, prohormone-processing
 [illegible]
 [illegible]
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 STN Files:  [illegible]

... [illegible] ...
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                [illegible]
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 REFERENCE  3:  [illegible]

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 REFERENCE  5:  [illegible]

 REFERENCE  6:  [illegible]

 REFERENCE  7:  [illegible]
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37353-41-6

Proteinase, cysteine (9CI)

Cysteine endoprotease

Cysteine protease

Cysteine proteinase

L-Cysteine proteinase

Mercapto proteinase

Papain-like cysteine protease

Sulfhydryl protease

Sulfhydryl proteinase

Thiol endoproteinase

Thiol protease

Thiol proteinase

Thioprotease

FILE COVERS [illegible]
FILE LAST UPDATED: [illegible] MAY [illegible]

This file contains CAS Registry Numbers for easy and accurate substance identification.

[illegible]

[illegible]

L41 ANSWER [illegible] OF 14 HCAPLUS COPYRIGHT [illegible] ACS
AN [illegible] HCAPLUS
DN 136:320313
TI High throughput or capillary-based screening of libraries of compounds for [illegible]
IN Short, Jay M.; [illegible], Martin; [illegible], William M[illegible]
PA [illegible] Corporation, USA
SO PCT Int. Appl., [illegible] pp.
CODEN: [illegible]
DT Patent
LA English
IC [illegible]
CC [illegible] Biochemical [illegible]
Section cross-reference(s): [illegible]
FAN.CNT [illegible]

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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W: [illegible]				
RW: [illegible]				
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[illegible]	A[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	A[illegible]	[illegible]	[illegible]	[illegible]
PRAI [illegible]	A[illegible]	[illegible]		
[illegible]	A[illegible]	[illegible]		
[illegible]	A[illegible]	[illegible]		
[illegible]	A[illegible]	[illegible]		

method

polynucleotides

method DNA library

plurality : nucleic acid sequences

clones

polynucleotide sequence

substrate.

library

library.

Methods

reporter gene

library

sequence

sequence

sequences

clone library

nucleic acid

combinatorial DNA library

combinatorial

library

libraries

libraries

fluorescence-

libraries

libraries

libraries

libraries

DNA

DNA

libraries

DNA sequences

libraries

libraries

libraries

IT Phosphatases, biological studies

RL: BPR (Biological process), BSU (Biological study); PROC (Process)

(alkyl, cell-permeable substrates for; high throughput or capillary-based screening of libraries

IT Metalloproteases

(substrates for; high throughput or capillary-based screening of libraries

IT

(cell, screening of; high throughput or capillary-based screening of libraries

IT Fluorescent substrates

(for assay substrates; high throughput or capillary-based screening of libraries

IT Bacillus (bacterium)

Fermentation

Flagellum

Flagellum motion

(for cloning of DNA libraries; high throughput or capillary-based screening of libraries

IT Peptides

RL: ANST (Analytical instrumentation); ANST (Analytical study); PREP (Preparation); USES (Uses)

(as fluorophores; high throughput or capillary-based screening of libraries

IT Neuston

(bacteria, screening of; high throughput or capillary-based screening of libraries

IT Spheres

(beads, Paramagnetic; high throughput or capillary-based screening of libraries

IT DNA

RL: ANST (Analytical instrument); ANST (Analytical study); PREP (Preparation); USES (Uses)

(cloning of; high throughput or capillary-based screening of libraries

IT Glycolipids, biological studies

Glycolipids

Phosphatidylcholines, biological studies

Phospholipids, biological studies

Sphingomyelins

Sterols, biological studies

Swelling

RL: BPR (Biological process), BSU (Biological study); PROC (Process)

(cell, mechanosensitive; high throughput or capillary-based screening of libraries

IT Liposomes

Macrophage

(cell membrane, cell mechanosensitive; high throughput or capillary-based screening of libraries

IT Erythrocyte

(cell membrane, cell mechanosensitive; high throughput or capillary-based screening of libraries

IT Genomic library

(combinatorial; high throughput or capillary-based screening of libraries

IT Bacteria

libraries

nucleic acid

libraries

libraries

libraries

libraries

libraries

Recombination, genetic

libraries

libraries

Nucleic acid

recombination

combinatorial libraries;

libraries

nucleic acid

recombination

combinatorial libraries;

libraries

libraries

Combinatorial library

libraries

libraries

Proteins

green fluorescent, reporter

label;

libraries

libraries

libraries

DNA

libraries

libraries

gene

libraries

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cloning

library

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gene

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Protein

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library

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Genetic methods

Genetic methods

libraries

Nucleic acid

method

libraries

substrates;

libraries

Fluorescein,

fluorophores;

libraries

substrate;

libraries

libraries

cloning : genes

libraries

cloning : genes

libraries

9001-92-7, Proteinase

libraries

libraries

libraries

substrate

libraries

libraries

sequence;

libraries

136:179829

Fusion proteins

fluorescent proteins

proteinase

proteinase

PATENT NO. KIND DATE APPLICATION NO. DATE

autofluorescent fusion protein protease substrate. nucleic acid sequence fusion protein, method fusion protein nucleic acid sequence fluorometric proteolytic green fluorescent protein protein recombinant fusion protein fluorescence protease GFP fusion; proteinase recombinant fluorescent protein fusion

IT Fluorometry
fluorescence; fusion proteins fluorescent proteins proteinase

IT Proteins
RL: ANT (Analyte); ANST (Analytical study); BIOL (Biological study); PROC (Process); USES (Uses)
fusion proteins; fusion proteins fluorescent proteins proteinase

IT Fluorometry
fluorescence; fusion proteins fluorescent proteins proteinase

IT Fluorometry
; fusion proteins

fluorescent proteins
proteinase ; proteinase

fluorescence ; fusion
proteins fluorescent
proteins proteinase ;
proteinase

Proteins

green fluorescent, fusion
proteins; fusion proteins
fluorescent proteins
proteinase ; proteinase

Proteins

green fluorescent, fusion
proteins; fusion proteins
fluorescent proteins
proteinase ; proteinase

cloning
; proteinase substrate DNA;
fusion proteins
fluorescent proteins
proteinase ; proteinase

Protein sequences
fusion proteins

, proteinase substrate-encoding;
fusion proteins
fluorescent proteins
proteinase ; proteinase

, proteinase substrate-encoding;
fusion proteins
fluorescent proteins
proteinase ; proteinase

proteinase substrate ; fusion
proteins fluorescent
proteins and their use in proteinase ;
proteinase

, Plasmid , ,
, ,
115775-22-9, protease ,
Tissue plasminogen activator 139691-88-6,
proteinase 144114-21-6,
RL: ANT Analyte ; ANST Analytical study
fusion proteins
fluorescent proteins
proteinase ; proteinase

9001-92-7, Proteinase
RL: ANT Analyte ; ANST
; fusion proteins
fluorescent proteins
proteinase ; proteinase

399104-41-7P 399104-42-8P
RL: AFO Analytical reagent use ; ANST Analytical study ; BIOL
Biosynthetic preparation ; PREP

protein sequences; fusion
proteins fluorescent
proteins proteinase
proteinase

protein sequence; fusion
proteins fluorescent
proteins proteinase
proteinase

sequence; fusion proteins
fluorescent proteins
proteinase proteinase

135:176419
Methods polynucleotide
encoding protease
chimeric protein

LA
FAN.CNT

AB cloning
sequences proteases. Methods
protease
label
protease, fusion
label
label chimeric
protein
protein fusion
protein
fusion
protease
protein

protein. Recombinant [illegible] proteins
protein. [illegible] methods [illegible]
proteases [illegible] proteases
metalloproteinase, [illegible]
proteinase [illegible]
IT protease gene [illegible] cloning [illegible]
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IT [illegible]
[illegible] protein ;; methods [illegible]
[illegible] polynucleotide [illegible] encoding
protease [illegible] [illegible] [illegible]
chimeric [illegible] protein
IT [illegible]
RL: ARG (Analytical reagent use); BIOL (Biological use, unclassified); ANST (Analytical study); BIOL (Biological study); USES (Uses)
[illegible] protein ;
protein [illegible]; methods [illegible]
polynucleotide [illegible] encoding protease
[illegible] chimeric [illegible] protein
IT [illegible]
RL: ARG (Analytical reagent use); BIOL (Biological use, unclassified); ANST (Analytical study); BIOL (Biological study); USES (Uses)
[illegible] protein [illegible]; methods [illegible]
identifying [illegible] polynucleotide [illegible] encoding
protease [illegible] [illegible] [illegible]
chimeric [illegible] protein
IT [illegible]
RL: ARG (Analytical reagent use); BIOL (Biological use, unclassified); ANST (Analytical study); BIOL (Biological study); USES (Uses)
[illegible] protein [illegible]; methods [illegible]
identifying [illegible] polynucleotide [illegible] encoding
protease [illegible] [illegible] [illegible]
chimeric [illegible] protein
IT [illegible]
[illegible]; [illegible] cell; methods [illegible]
polynucleotide [illegible] encoding protease
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protein
IT [illegible]
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protease [illegible] [illegible] [illegible]
chimeric [illegible] protein
IT Proteins, [illegible]
RL: BIOL (Biological study, unclassified); BIOL (Biological study)

autofluorescent, gene encoding,
reporter gene; methods
polynucleotide encoding
protease
chimeric protein

IT Fusion,
methods polynucleotide
encoding protease
chimeric protein

IT Proteins,
RL: fluorescent, gene encoding,
reporter gene; methods
polynucleotide encoding
protease
chimeric protein

IT
protein ; methods
polynucleotide encoding
protease
chimeric protein

IT
protein ; methods
polynucleotide encoding
protease
chimeric protein

IT
protein ; methods
polynucleotide encoding
protease
chimeric protein

IT Gene
proteinase; methods
polynucleotide encoding protease
chimeric
protein

IT
protein ; methods
polynucleotide encoding
protease
chimeric protein

IT
fusion ; methods
polynucleotide encoding protease
chimeric
protein

IT proteins

fusion [illegible]; methods [illegible]
polynucleotide [illegible] encoding protease
[illegible] chimeric [illegible]
protein
IT Proteins, [illegible]
[illegible]
green fluorescent, gene encoding
, [illegible] reporter gene; methods [illegible]
[illegible] polynucleotide [illegible] encoding
protease [illegible]
chimeric [illegible] protein
IT Proteins, [illegible]
[illegible]
[illegible] protein [illegible];
methods [illegible] polynucleotide
[illegible] encoding protease [illegible]
[illegible] chimeric [illegible] protein
IT Genetic [illegible]
Genetic methods
[illegible] cloning
Nucleic acid [illegible] method
[illegible], genetic
cDNA library
methods [illegible] polynucleotide
[illegible] encoding protease [illegible]
[illegible] chimeric [illegible] protein
IT [illegible] nucleic acid
Reporter gene
[illegible]
methods [illegible] polynucleotide
[illegible] encoding protease [illegible]
[illegible] chimeric [illegible] protein
IT [illegible]
polynucleotide [illegible]; methods [illegible]
[illegible] polynucleotide [illegible] encoding
protease [illegible]
chimeric [illegible] protein
IT [illegible]
polynucleotide [illegible]; methods [illegible]
[illegible] polynucleotide [illegible] encoding
protease [illegible]
chimeric [illegible] protein
IT [illegible]
polynucleotide [illegible]; methods [illegible]
[illegible] polynucleotide [illegible] encoding
protease [illegible]
chimeric [illegible] protein
IT [illegible]
polynucleotide [illegible]; methods [illegible]
[illegible] polynucleotide [illegible] encoding
protease [illegible]
chimeric [illegible] protein
IT Protein [illegible]
protease [illegible]; methods [illegible]
[illegible] polynucleotide [illegible] encoding
protease [illegible]
chimeric [illegible] protein
IT [illegible]
[illegible]; methods [illegible]
polynucleotide [illegible] encoding protease
[illegible] chimeric [illegible]

protein

146480-35-5P, [illegible] 161384-17-4P, [illegible]

[illegible]

cloning [illegible]; methods [illegible]

polynucleotide [illegible] encoding protease [illegible] chimeric [illegible]

protein

[illegible]

[illegible] protein [illegible]; methods [illegible]

polynucleotide [illegible] encoding protease [illegible] chimeric [illegible] protein

[illegible]

gene encoding, [illegible] reporter gene [illegible]; methods [illegible] polynucleotide [illegible] encoding protease [illegible] chimeric [illegible] protein

9001-92-7P, Protease [illegible]

methods [illegible] polynucleotide [illegible] encoding protease [illegible] chimeric [illegible] protein

141760-45-4, [illegible]

[illegible]; methods [illegible]

polynucleotide [illegible] encoding protease [illegible] chimeric [illegible]

protein

[illegible] gene, [illegible] genetic [illegible];

methods [illegible] polynucleotide [illegible] encoding protease [illegible] comprising chimeric [illegible] protein

RE.CNT [illegible] THERE ARE [illegible] OTHER REFERENCES AVAILABLE FOR THIS RECORD

RE

[illegible]

L41 ANSWER [illegible] OF 14 HCAPLUS [illegible]

AN [illegible]

IN [illegible]

TI [illegible]

peptide libraries

AU Scott, C. P.; [illegible]; Benkovic, S. J.

[illegible]

PA [illegible]

SO [illegible]

LA [illegible]

methods

libraries

methods

Genetic

methods

genetic methods.

peptide

substrate

Libraries

clones

library

method

libraries

peptides

. Genetic encoding

method

peptide

methods

peptide library

peptide libraries

IT Peptides,

RL: ANT (Analyte); ANST (Analytical study)

(cyclic; structural requirements for biosynthesis and for mycelial

peptide libraries)

IT Cell membrane

Genetic methods

Peptide library

peptide libraries

RE

1. Author, A; Title of Publication, Year, Vol, Page Numbers.

2. Author, A; Title of Publication, Year, Vol, Page Numbers.

3. Author, A; Title of Publication, Year, Vol, Page Numbers.

4. Author, A; Title of Publication, Year, Vol, Page Numbers.

5. Author, A; Title of Publication, Year, Vol, Page Numbers.

6. Author, A; Title of Publication, Year, Vol, Page Numbers.

7. Author, A; Title of Publication, Year, Vol, Page Numbers.

8. Author, A; Title of Publication, Year, Vol, Page Numbers.

9. Author, A; Title of Publication, Year, Vol, Page Numbers.

10. Author, A; Title of Publication, Year, Vol, Page Numbers.

11. Author, A; Title of Publication, Year, Vol, Page Numbers.

12. Author, A; Title of Publication, Year, Vol, Page Numbers.

13. Author, A; Title of Publication, Year, Vol, Page Numbers.

14. Author, A; Title of Publication, Year, Vol, Page Numbers.

15. Author, A; Title of Publication, Year, Vol, Page Numbers.

16. Author, A; Title of Publication, Year, Vol, Page Numbers.

17. Author, A; Title of Publication, Year, Vol, Page Numbers.

18. Author, A; Title of Publication, Year, Vol, Page Numbers.

19. Author, A; Title of Publication, Year, Vol, Page Numbers.

20. Author, A; Title of Publication, Year, Vol, Page Numbers.

134:112228
Fluorescent fusion protein
reporter substrate protein
protease
Fluorescent labeled
protein protease substrate
fluorescent proteins N
C-terminal peptide
protease Labeling
peptides fluorescent proteins
fluorescent
Recombinant labeled
fusion protein protease substrate
peptide protease
green fluorescent protein
GFP N-terminal
fluorescent protein C-
terminal constructed
protease substrate GFP
labeling; protein
protease fluorescent fusion
protein substrate
recombinant; fluorescent
fusion protein reporter
substrate protease
Proteins,
fluorescent protein
fluorescent fusion protein
reporter substrate protease
Genetic
cloning
Protein
Protein sequences

fluorescent fusion protein
reporter substrate protease

IT Fusion proteins chimeric proteins

fluorescent fusion protein
reporter substrate protease

IT proteins

fluorescent fusion protein
reporter substrate protease

IT Peptides,

fluorescent fusion protein
reporter substrate protease

IT

fluorescent, ; fluorescent fusion
protein reporter substrate
protease

IT Proteins,

(green fluorescent, fusion
protein; fluorescent fusion protein
reporter substrate protease

IT Bacteria

recombinant ; fluorescent
fusion protein reporter
substrate protease

IT

sequence; fluorescent fusion
protein reporter substrate
protease

IT 9001-92-7, Protease

fluorescent fusion protein
reporter substrate protease

IT

nucleotide sequence; fluorescent
fusion protein reporter
substrate protein
protease

134:2050

IT Fluorescent fusion protein
reporter substrate protease

Fluorescent labeled protease
substrate fluorescent proteins
N C-terminal
peptide protease
Labeling peptides fluorescent
proteins fluorescent Recombinant
labeled fusion protein
protease
substrate peptide
green fluorescent
protein GFP N-terminal
fluorescent protein C-
terminal constructed
fluorescent fusion protein
substrate FRET; proteinase fluorescent
fusion protein substrate FRET

recombinant ; fluorescent
fusion protein reporter
substrate protease

Proteins,

fluorescent protein ;
fluorescent fusion protein
reporter substrate protease

Genetic
cloning
Protein
Protein sequences
fluorescent fusion protein
reporter substrate protease

Fusion proteins chimeric proteins

fluorescent fusion protein
reporter substrate protease

Peptides,

fluorescent fusion protein
reporter substrate protease

fluorescent, ; fluorescent fusion
protein reporter substrate
protease

Proteins,

green fluorescent, fusion
protein; fluorescent fusion protein
reporter substrate protease

recombinant ; fluorescent
fusion protein reporter
substrate protease

9001-92-7, Protease

fluorescent fusion protein
reporter substrate protease

substrate; fluorescent fusion
protein reporter substrate
protease

sequence; fluorescent fusion
protein reporter substrate
protease

133:275788

substrates proteases
peptide

Fluorogenic substrates
proteolytic enzymes methodol.

quenched fluorogenic
peptide
substrates protease

fluorogenic substrates
recombinant
peptide
protease substrates
protease peptide
peptide
substrates
proteases peptide
Peptide
substrates
proteases peptide
Peptides,
substrates
proteases peptide
9001-92-7, Proteinase 208934-04-7,
substrates
proteases peptide
substrates
proteases peptide

TI Recombinant fusion proteins peptides

AU Benkovic, Stephen J.; Scott, Charles P.;

Methods peptides

peptides

methods

peptides

peptide peptide

peptide loop

peptide

peptide,

peptide

peptides, methods

libraries, methods peptides.

protein

proteolysis.

IT peptide fusion recombinant

fusion

IT Peptides,

; recombinant

fusion proteins peptides

IT Chimeric gene

fusion; recombinant

fusion proteins

peptides.

IT DNA

gene , ; recombinant

fusion proteins

peptides

IT Enzymes,

gene , ; recombinant

fusion proteins

peptides

IT Proteins,

, fusion proteins ; recombinant

fusion proteins

peptides

IT

chimeric gene fusion;

recombinant fusion

proteins peptides

IT

; recombinant

fusion proteins

peptides

IT

, ; recombinant

fusion proteins peptides

IT

recombinant fusion
proteins peptides

132:134243
Reporter Protein-Peptide

peptide
fluorescent
protein.
fluorescein
fluorescence-
quenching peptide
proteinase,
fluorescence peptides
fluorometric peptide-protein
peptide,
fluorescence
fluorescein
peptides protein-
peptide
protein peptide fluorescence
quenching fluorescein
Protein
reporter protein-
peptide
Fluorescence
Fluorescence quenching
Fluorescent
reporter protein-
peptide
Peptides,
Proteins,

reporter protein-
peptide

reporter protein-
peptide

fluorescein

reporter protein-
peptide

reporter protein-
peptide

9001-92-7, Proteinase

reporter protein-
peptide

peptides proteins

Scott, Charles P.; Benkovic, Stephen J.

libraries

Methods

libraries

library

library

methods.

proteins

peptide

method

proteins

peptides

recombinant

peptide protein libraries.

peptide protein

peptides

proteins

Peptides,

Proteins,

peptides

proteins

Proteins,

peptides

proteins

peptides

proteins

peptides

proteins

peptides

proteins

peptides

RE
(1) [illegible]
(2) [illegible]
(3) [illegible]
(4) [illegible]
(5) [illegible]
(6) [illegible]
(7) [illegible]
(8) [illegible]
(9) [illegible]
(10) [illegible]
(11) [illegible]
(12) [illegible]
(13) [illegible]
(14) [illegible]
[illegible]
(15) [illegible]
(16) [illegible]
(17) [illegible]
(18) [illegible]
(19) [illegible]
(20) [illegible]
(21) [illegible]
(22) [illegible]
(23) [illegible]
(24) [illegible]
(25) [illegible]
(26) [illegible]
(27) [illegible]
(28) [illegible]
(29) [illegible]
(30) [illegible]
(31) [illegible]
(32) [illegible]
(33) [illegible]
(34) [illegible]
(35) [illegible]
(36) [illegible]
(37) [illegible]
(38) [illegible]

L41 ANSWER 11 OF 14 [illegible]
AN [illegible]
DN 131:239516
TI [illegible] GFP [illegible] reporter [illegible]
sequence-[illegible] proteases
AU [illegible]
[illegible]
CS [illegible]
[illegible]
SO [illegible]
[illegible]
PB [illegible]
[illegible]
LA [illegible]
[illegible]
AB [illegible]
structure-- [illegible] sequence-[illegible] proteases [illegible]
[illegible] fluorescent [illegible]
[illegible] sequence-[illegible]
proteases. [illegible] protease
substrate [illegible] N-terminal [illegible]

green fluorescent protein GFP .
Proteolysis GFP fusion
protein,
fluorescent fusion protein
GFP proteolysis.
GFP
spectrofluorometer.
fluorescent substrate;
proteinase fluorescent substrate
Proteins,
green fluorescent, fusion
proteins ; GFP reporter
sequence- proteases
Protein
: GFP reporter
sequence- proteases
9001-92-7, Proteinase ,
; ,
: GFP reporter
sequence- proteases
129:172555
fluorescence-
fluorescence
green fluorescent protein GFP
reporter gene.
fluorescence.
fluorescence
fluorescence
protease
green fluorescent
protein reporter gene.

reporter
fluorescence ; fluorescence
: GFP fluorescence.
IT fluorescence
IT
Fluorometers
Fluorometry
: fluorescence-
IT Reporter gene
: fluorescence-
IT
fluorescence ;
fluorescence-
IT
fluorescent, ; fluorescence
IT Proteins,
green fluorescent;
fluorescence-
IT
reporter ; fluorescence
IT Combinatorial
; fluorescence-
IT 9001-92-7, Protease
: fluorescence-
AN
DN 127:187497
TI Fluorogenic substrates : proteinases
fluorescence
IN
PA
IT
LA
IT

PAN.NT
PATENT NO. KIND DATE APPLICATION NO. DATE
PI [illegible]
W: [illegible]
RW: [illegible]
[illegible]
PRAI [illegible]

AB Fluorogenic peptide [illegible] substrates [illegible] proteinases [illegible] peptides [illegible] from the [illegible] of the proteinase [illegible] fluorescence [illegible] fluorogenic [illegible] peptide [illegible] peptide may be part [illegible] protein that exhibits [illegible] fluorescence [illegible] green fluorescent protein. [illegible] peptides exhibiting FRET [illegible] reactions where the group of interest could be [illegible]. A fusion protein of a green fluorescent protein and a blue fluorescent protein [illegible] connected by a linker that includes [illegible] and enterokinase was [illegible] gene in Escherichia coli. The fusion protein [illegible] green fluorescence. When [illegible] green emission [illegible] fluorescence of the blue protein [illegible] green and blue fluorescent proteins showed no changes in fluorescence indicating that they were resistant to trypsin..

ST fluorescent resonance energy transfer proteinase assay; FRET green fluorescent protein proteinase assay

IT Resonant energy transfer
(fluorescent; fluorogenic [illegible] substrates for proteinases with [illegible] emit fluorescence [illegible]

IT Fluorometry
fluorogenic [illegible] substrates [illegible] proteinases [illegible] emit fluorescence [illegible]

IT Fusion proteins chimeric proteins

RL: [illegible]

fluorogenic, [illegible] proteinase [illegible] substrates; fluorogenic [illegible] substrates for proteinases [illegible] emit fluorescence [illegible]

IT Peptides, [illegible]

fluorogenic; fluorogenic substrates
proteinases
fluorescence

IT Chimeric genes

green fluorescent protein
fusion ; fluorogenic substrates
proteinases
fluorescence

IT Proteins proteins

green fluorescent, fusion
proteins, proteinase
substrates; fluorogenic substrates
proteinases
fluorescence

IT Protein sequences

green fluorescent protein
; fluorogenic substrates
proteinases
fluorescence

IT fusion , fusion , fusion
fusion , fusion
fusion , fusion

proteinase assay substrate; fluorogenic
assay substrates proteinases
fluorescence

IT fusion

proteinase substrates;
fluorogenic substrates proteinases
fluorescence

IT 9001-92-7, Proteinase
37353-41-6,
proteinase 99676-46-7,
122191-40-6,
139691-88-6, 144114-21-6,
158736-49-3, 161052-06-8,

fluorogenic substrates
proteinases
fluorescence

IT

proteinase peptide
green fluorescent protein fusion
proteins; fluorogenic substrates
proteinases

fluorescence

L41 ANSWER [illegible]
AN [illegible]
DN 116:250919
TI [illegible] proteases
fluorogenic substrates
AU [illegible]
[illegible]
[illegible]
SO [illegible]
DT [illegible]
LA English
CS [illegible] Enzymes,
AB Intramol. quenched fluorogenic peptide substrates were [illegible] specificity and [illegible] mechanism studies on proteinases. The substrates should also be applicable to fluorometric assay.
IT proteinase fluorogenic peptide substrate
IT Peptides, [illegible]
RL: [illegible]
fluorogenic, substrates for proteinase
[illegible]
IT 9001-92-7, Proteinase
RL: BIOL [illegible]
fluorogenic peptide substrates for
specificity and mechanistic studies of

=> fil biosis
FILE 'BIOSIS' ENTERED AT [illegible] MAY [illegible]
COPYRIGHT (C) [illegible] BIOSIS ALL RIGHTS RESERVED.

FILE COVERS [illegible] TO DATE.
CAS REGISTRY NUMBERS AND 'SEQUENCE SEARCH' NOW [illegible]
FROM JANUARY [illegible] TO DATE.

RECORDS LAST ADDED: [illegible] May [illegible]

=> d all

L50 ANSWER 1 OF 1 BIOSIS COPYRIGHT (C) BIOLOGICAL ABSTRACTS INC.
AN 1998:119820 BIOSIS
DN PREV[illegible]
TI Development of an intramolecularly quenched fluorescent substrate for [illegible].
AU Zhang, Wenyan; Benkovic, Stephen J. (1)
CS [illegible]
SO Analytical Biochemistry, [illegible], Mar. 1, 19[illegible].
[illegible].
DT Article
LA English
AB Enzymatic [illegible], as they [illegible] responsible for the [illegible] of many cell processes. Recent studies suggest that [illegible] protease that [illegible] quenched fluorescent [illegible]

fluorescence

quenched

quenched fluorescence

fluorescence

fluorescent

fluorescence

fluorescence

AN 21643033 : 11785758

green fluorescent protein

proteins

protein

protein-protein : protein

fluorescence

green

fluorescent proteins

Endopeptidases: ME, metabolism
Luminescent Proteins: CH, chemistry
Luminescent Proteins: GE, genetics

RN 147336-22-9 (green fluorescent protein)

Endopeptidases

AN 21478852 : 11594737

TI Green fluorescent protein

protease-

AB The green fluorescent protein GFP

GFP

GFP

Fluorescence

proteases,

GFP

GFP

protease

Binding sites: BE, biochemistry

Electrophoresis, Polyacrylamide Gel

Fluorescence-

*Luminescent Proteins: CH, chemistry

*Luminescent Proteins: GE, genetics

Mutagenesis, Site-Directed

RN 147336-22-9 (green fluorescent protein)

Hydrolases ; E

AN 21157022 : 11256942

TI green fluorescent protein

Journal; Article;

General Review;

REVIEW, TUTORIAL

proteins

proteins

protein

green fluorescent protein GFP

fluorescent

proteins,

proteins, GFP fluorescence

protease

GFP

protein

proteases.

Aequorin: GE, genetics
*Aequorin: ME, metabolism
DNA, Complementary
Luminescent Proteins: GE, genetics
*Luminescent Proteins: ME, metabolism
Recombinant Proteins: GE, genetics
Recombinant Proteins: ME, metabolism

147336-22-9 (green fluorescent protein);

2001045557

20535188 : 11080689

endoproteases

green fluorescent protein

GFP

encoded protease

fluorescent

GFP

Amino Acid Sequence

Biosensing Techniques

Cysteine Proteinase Inhibitors: PD, pharmacology

*Drug Evaluation, Preclinical: MT, methods

Flow Cytometry

Genes, Reporter: GE, genetics

Luminescent Proteins: GE, genetics

*Luminescent Proteins: ME, metabolism

Molecular Sequence Data

Protein Processing, Post-Translational: DE, drug effects

Recombinant Fusion Proteins

Reproducibility of Results

Transfection

147336-22-9 (green fluorescent protein)

Proteinase

1999400425

99400425 : 10471377

: green fluorescent protein

proteins

protein

protein GFP

-GFP

GFP

encoding

endopeptidase -GFP

green fluorescence

GFP -GFP

Fluorescence

-GFP

-GFP-

-GFP

protein

Cell Fractionation

DNA, Complementary

Flow Cytometry

Genes, Reporter

Luminescent Proteins: BI, biosynthesis

*Luminescent Proteins: GE, genetics

Protein Sorting Signals: BI, biosynthesis

Protein Sorting Signals: GE, genetics

Recombinant Fusion Proteins: BI, biosynthesis

Transfection: MT, methods

147336-22-9 (green fluorescent protein)

AN 96305134 MEDLINE

DN 96305134 PubMed ID: 8707050

TI Fluorescence

green

fluorescent protein.

AB fluorescent green fluorescent
protein GFP
: GFP
protease
GFP
protein
fluorescent proteins
protein
GFP protein-
protein
protease

Base Sequence
Cloning, Molecular
DNA Primers

*Luminescent Proteins: CH, chemistry
Luminescent Proteins: GE, genetics
Molecular Sequence Data
Mutagenesis
Recombinant Fusion Proteins: AN, analysis
Spectrometry, Fluorescence

RN 147336-22-9 (green fluorescent protein)

AN 2002-269094

XA C2002-079859

protease protease-

protease

C12N015-11;

C12N015-63;

protease

protease

protease

protease,

protease

protease,

protease

protease-

protease

protease

D05-H09; D05-H12C; D05-H12E;
D05-H14; D05-H16; D05-H17C

Proteins:

protease

green fluorescent

protein GFP

protease.

fluorescence

fluorescence

fluorescence

L2 ANSWER

AN 2001-185140

DNN N2001-132187 C2001-055889

TI protease protease

PA

PI

ADT

IRAI

IC ICM C12N015-09

ICA

AB

protease,

fluorescent

proteins

protease

fluorescent

fluorescent protein

fluorescent

fluorescent proteins

green

protease

protease,

protein fluorescent
proteins

DC
IN ; BENKOVIC, S J; SCOTT, C P
PA
PI
RW:
M:
ADT
PRAI
AP
; D05-H09;
D05-H12E; D05-H17C

AN 2000-106136

INN N2000-081497 C2000-031958

IN JOHNSON, [illegible]; [illegible], E; [illegible], [illegible]

PA [illegible]; [illegible]; [illegible]; [illegible]; [illegible]

C12N015-62;

protein

protein protein

protein protein

protein protein

green fluorescent protein GFP

GFP;

protein-protein

protein

protein

GFP

GFP

protease